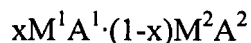


## AMENDMENTS TO THE CLAIMS

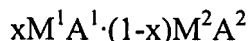
1 to 5. (Cancelled)

6. (New) A high-brightness mechanoluminescence material consisting of a composite semiconductor crystal represented by the formula:



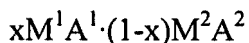
wherein  $M^1$  is Mn or Eu,  $M^2$  is Zn, Mn, Cd, Cu, Eu, Fe, Co, Ni, Mg or Ca, each of  $A^1$  and  $A^2$  is the same chalcogen with the proviso that  $M^1A^1$  and  $M^2A^2$  differ each from the other, and  $x$  is a positive number smaller than 1 and wherein the composite semiconductor crystal has a mixed structure of the wurtzite-type structure and the zincblende-type structure.

7. (New) A method for the preparation of the high-brightness mechanoluminescence material consisting of a composite semiconductor crystal represented by the formula:



wherein each of  $M^1$  and  $M^2$  is, independently from the other, an element selected from Zn, Mn, Cd, Cu, Eu, Fe, Co, Ni, Mg and Ca, each of  $A^1$  and  $A^2$  is an atom selected independently from chalcogens, with the proviso that  $M^1A^1$  and  $M^2A^2$  differ each from the other, and  $x$  is a positive number smaller than 1 and wherein the composite semiconductor crystal has a mixed structure of the wurtzite-type structure and the zincblende-type structure,

which comprises the steps of mixing source materials of the constituent ingredients; heating the thus obtained mixture in vacuum at a temperature lower than the sublimation point of the product to produce a composition represented by the formula



wherein each of  $M^1$  and  $M^2$  is, independently from the other, an element selected from Zn, Mn, Cd, Cu, Eu, Fe, Co, Ni, Mg and Ca, each of  $A^1$  and  $A^2$  is an atom selected independently from chalcogens and  $x$  is a positive number smaller than 1, with the proviso that  $M^1A^1$  and  $M^2A^2$  differ each from the other; causing sublimation of the composition at a temperature equal to or higher

than the sublimation point of the composition; and crystallizing the thus generated sublimate by condensation at a temperature lower than the sublimation point thereof.